2.1a Limits

Write a sentence to explain the meaning of the following expression to someone who has not had calculus: $\lim_{h\to 0} 4+h=4$

Estimate the following limits using graphical, numerical and symbolic methods:

$$\lim_{x\to 1}(x+1)$$

Aug 30-7:02 PM

$$\lim_{x\to 0}\frac{x^2-1}{x-1}$$

$$\lim_{x\to 1}\begin{cases}\dfrac{x^2-1}{x-1}, x\neq 1\\ 1, x=1\end{cases}$$

Aug 30-7:14 PM

$$\lim_{x\to 0}\frac{\sin(x)}{x}$$

$$\lim_{x\to 0}\frac{\tan(x)}{x}$$

Aug 30-7:19 PM

$$\lim_{x\to 2}\frac{x^3-1}{x-2}$$

Aug 30-7:38 PM

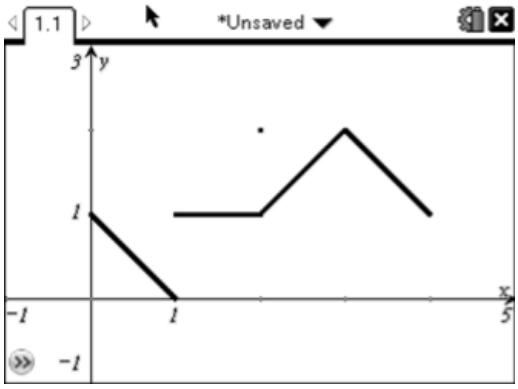
One-sided limits

$$\lim_{x \to c^+} f(x)$$

$$\lim_{x \to c^-} f(x)$$

Aug 30-7:40 PM

Example 8



Aug 30-7:43 PM